Missouri Botanical Garden
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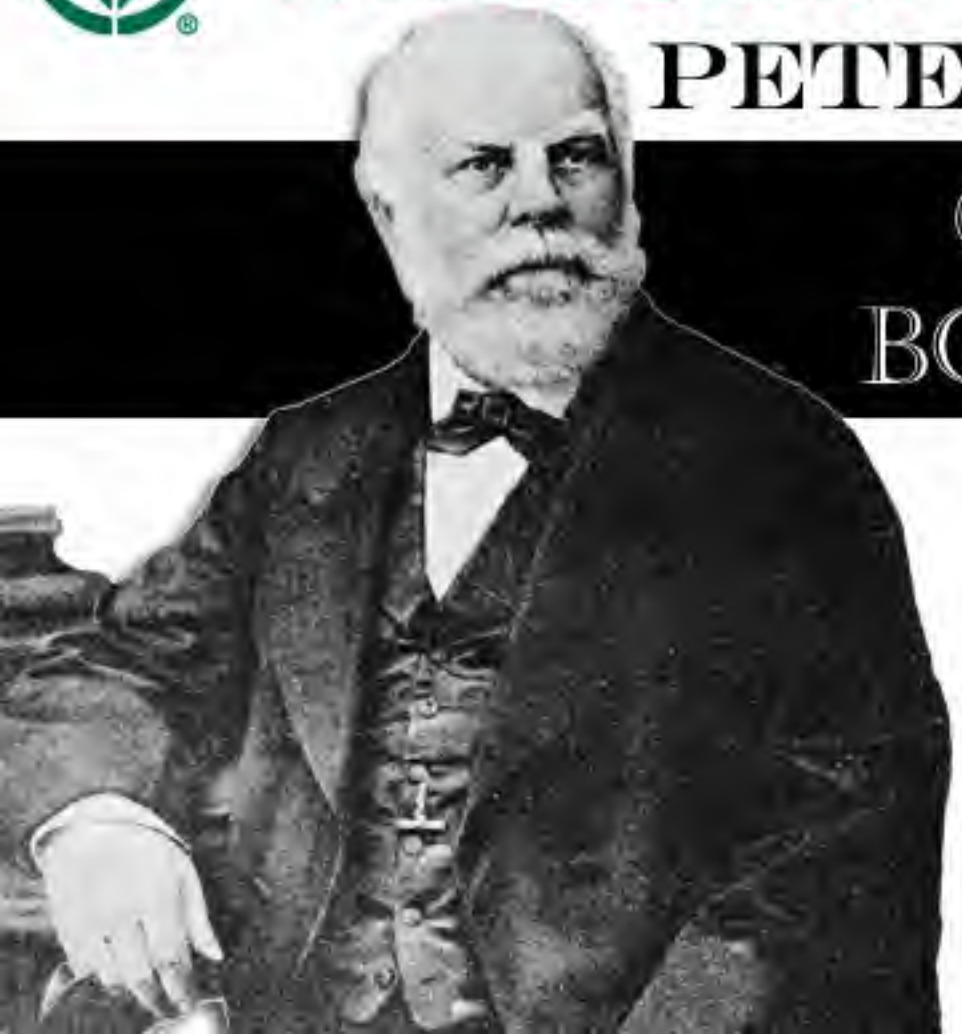
George Engelmann Botanical Notebooks



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the first days intact, the cells unaltered in form, and in the same regular disposition as normally.

The first phenomenon observed in such wounds, then, is the appearance of fibrine and white blood corpusles. At first the fibrine predominates; gradually, the leucocytes immigrate into it, and after 48 hours already far exceed the fibrine in bulk. All subsequent changes visible in wounds concern the leucocytes; at the same time the author is unable to disprove farther participation of the connective tissue cells, because they can now no longer be seen, being concealed by the constantly increasing number of the white blood cells.

About 36 or 48 hours after the infliction of the muscular wound, there are found among the leucocytes roundish cells, each with a broad margin of protoplasma and light round nucleus without nucleolus, which up to the 4th or 5th day continue to increase in number, and almost completely replace the leucocytes. In size they exceed the latter considerably, their nuclei being almost equal to these. Between them is found a wholly amorphous, clear substance in which they are imbedded.

Later, about the 6th day of a muscular wound, the round cells are seen but sparingly; their places are filled by spindle-shaped cells, lying together in close rows, and increasing in size up to the 9th day. The nuclei also have changed their form, having become elongated.

cm 0 1 2 3 4 5 6 7 8 9 10
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his farther disclosures on the healing process, to which we may revert on a future occasion.

In view of all these facts, presented to us by competent observers, and partly verified by other most reliable authorities,* we see no reason to disbelieve that, under certain circumstances, the white corpuscles of the blood can escape from the blood vessels, migrate through the tissues, and, on the one hand, perish as pus corpuscles, or, finding their way into "coagulable lymph," organize into elements of the connective tissue type, and substitute living and vascular tissue for the fibrine thrown out in wounds or serous sacs;—that the cellular elements of pus and mucus, and the migratory cells of healthy areolar tissue, have all, at one time, probably been circulating in the blood or lymph as "leucocytes."

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*Among others, we may name Dr. BASTIAN.

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0 1 2 3 4 5 6 7 8 9 10 cm
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Length of Pollen

abies religiosa	0.12 – 0.14 mm
A. magnifica	0.14 – 0.17
A. pectinatas	0.11 – 013
A. concolor	0.11 – 0.12
A. Balsamea	0.10 – 0.13.
A. bracteata	0.12 – 0.13

A. pectinata Thurs	0.14 – 0.15
" Apollinis	0.13 – 0.15
Regia Amb	0.13 – 0.14
A. Cephalonica	0.13 – 015
A. Nipponica	0.13 – 0.14
A. firma	0.12 – 0.14

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R. C. HARRISON,

508 Lafayette Avenue,

Druggist & Apothecary

0 cm 1 2 3 4 5 6 7 8 9 10

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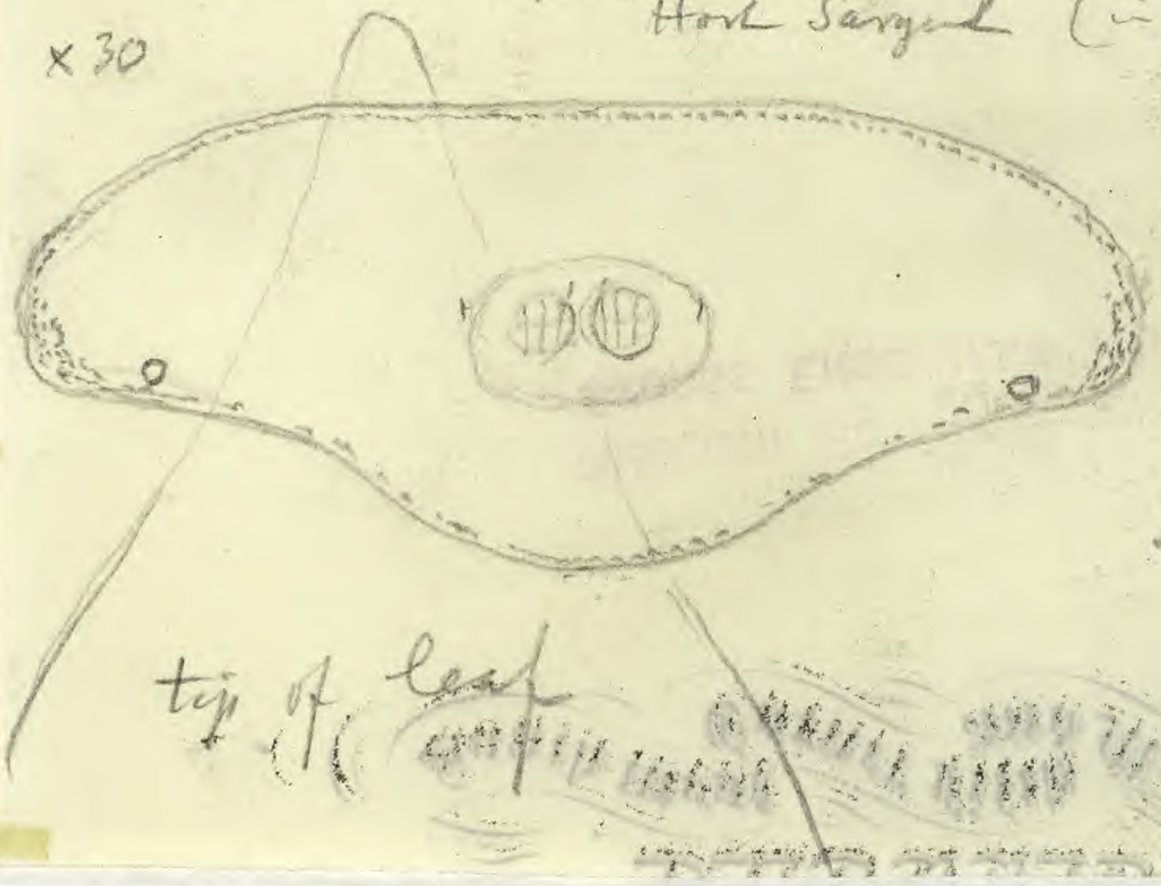
Abies Cephalonica
Hort Sargent (in the woods)

Jan 14 1884

Sept 1883



hypoderm all around, crowded on edges interrupted below

no stomata above

8-9 series on each side below

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South-west Corner Fifth and Market Streets

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Vasey writes Jan 11 1878

(Letter cut up)

№ 384. of Agr. Coll. is Dufour's № 12. "a tree
321 feet high, with 308 annul rings"
(Vasey's A. amabilis) probly A Douglasii"
" not Douglasii (Dufour № 9) looks different.
Can this № 12 be amabilis?

Dufour's 1.
2.
3 A. Engelmanni !
4.
5.
6.
7.
8. A. grandis !
9. A. Douglasii with fr. de Vasey
10.
11.
12. = 384 A. Douglasii ? called amabilis !
13. A. menziesii !

[Abies, forms loose]

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Office Anzeiger Association,

St. Louis, 11 Jan. 1878

Mr. Engelmann M.D.

SIR:

The regular annual Meeting of the Stockholders of this Association will be held

Monday, Jan. 21 at 4 o'clock, P. M.

at the Anzeiger Office, for the purpose of hearing the report of last year's transaction.

A dividend of $ ..... per Share has been declared by the Board of Directors, payable on and after the ..... inst.

The annual Election of the BOARD of DIRECTORS to serve for the ensuing year and consisting of three Members will be held on Monday, January 28 1878

Polls open from 2 to 5 o'clock P. M.

CARL DAENZER, President.

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Fresno July 14. 1875.

Lieber Darlow

Wir müssen
gerne meinen Wunsch
Gebrüderlichen "Fresno 18 Lus Juli."
in Erfüllung sehen
Sind wir Familien seinen.
Wollen Sie mir Ihr helfen und wir
seyn wir Sie Ihr und Ihr
Frau und Kinder sind. Georgl
den Sie ist in Falle unsere
Sache mir gerne unsere Hilfe
Sie kommen würden.
Einstweilen lingen wir Ihnen mit
wissenschaft Ihr wir und
alle Ihre seinen Sie sehr gr
Ihren. Willi wird Fresno
Morgen von Ihnen Sie
Ihr gr
Ihr Kinder Gruß wir

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Balsamea

Sibirica forma subalpina

Grandes Pectinatæ subacutæ.
Enucleatæ subacutæ.
Pectinatæ

nobiles

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12780

Abies Balsamea on Lake Superior, H Gilman 1873

70' high, 1' diam, 130 annual rings 10-11 rings to 1 inch

trunk up to lowest branches 35 feet

Cones only in top

for Cares exposition and I will be able
in a day or two to review them and give you
some information about them. It was un—
fortunate that I could not send a good botanist
into Oregon. I will also inform you respecting
the specimens collected by my son in California.

12781

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" Abies pertinata "

Octo 7 1870

Hort Bot Neapol May 1868

younger and older immature cones

from same branch

Cones of A. Nordmanniana

or perhaps A. pallasiana

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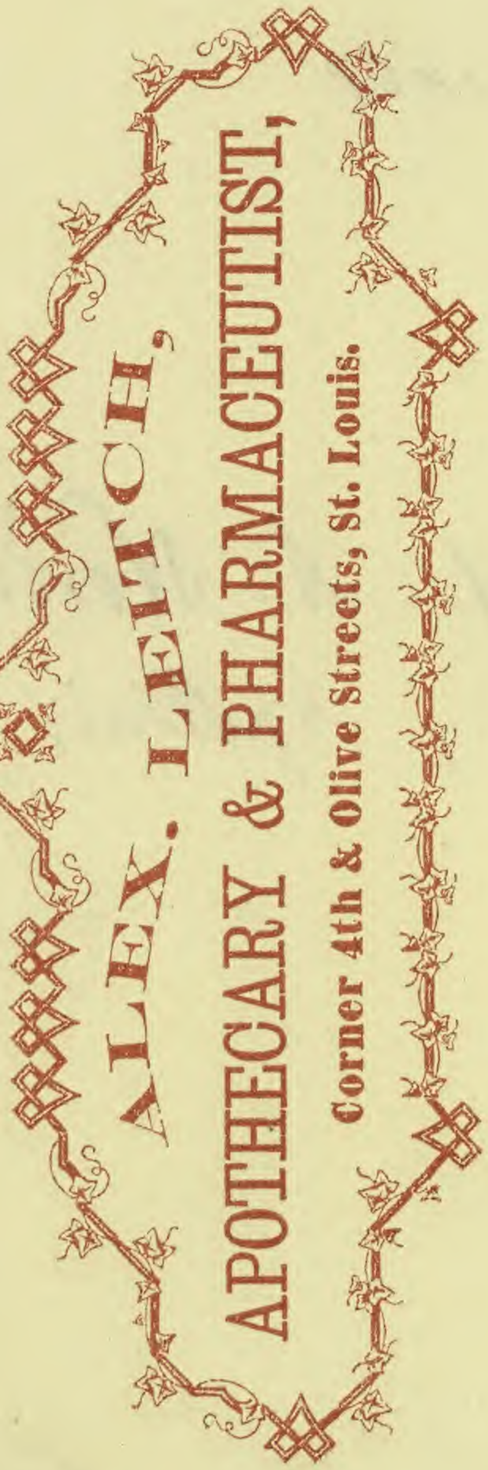

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3 Oct 1875

Abies

A. (Heterophyllae, Sect.) Balsameae

Ductus foliorum resiferi immersi a strato corticali utroque latere foliorum ramulorum et stipitum plana emarginata exeunte

1 A. Balsamea

2 A. Fraseri

3 A. occidentalis

C. Grandes

Ductus foliorum resiferi (strato corticali) laterio-superioris margine versus folia plerumque longiora adpositi.

4 A. grandis

5 A Lowiana

6 A Concolor

C. Bracteatae

Ductus foliorum resiferi cortici laterio-superioris margine versus adpositi, introrsum hinc inde obliterati

7 A. religiosa

8 A. bracteata

D. Nobiles

Ductus foliorum resiferi cortici laterio-superioris inter marginem carinamque fere medio adpositi

9 A nobilis

10 A. magnifica

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SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE,

New Haven, Connecticut, Sept 21 1875

12783B

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Ernest Fasold,
PHARMACEUTIST,
N. W. Cor. Park Ave. & 10th (or South) St.,
ST. LOUIS.

of Mosses [illegible]
you wrote to Dr. Gray for.

I am sorry there is so little of it, & so poor at that.

It may interest you to know that my Yucca failed to flower last year, but flowered this year - & has set abundant fruit, with the larvae in every capsule I have examined. No other plant within 300 feet of it, or perhaps much further -

Yours truly

S. C. Eaton

Dr. Engelmann

12783C

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6555-807

Picea Don – Loud Arb. 4.2329 (1838)

Abies Tournef. – Mill.
– DeCand pt. pro – comprises Abies & Picea

Juss. Gen. pro parte Link Abhandl Acad Wiss Berl 1827
Abhandl Acad. Wiss. Berl 1827. 181 and
Abies Link Linnaea 15 – 529 (1841).

12784

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